

Abstract: The present invention is directed to a transparent medium incorporating the oxidative polymerization product of 3-hydroxykynurenine, a synthetic version of the yellow-to-brown pigment that occurs in the ocular crystalline lens with age. Because this coloration in the ocular lens is believed to offer photoprotection to the retina, it may represent an ideal sun lens filter with an optical transmission spectrum that is compatible with the psychophysical and neurophysiological characteristics of the vision system.